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IS 8847 (1978): dried glucose syrup [FAD 2: Sugar Industry]

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IS : 8847 - 1978

*Indian Standard*  
SPECIFICATION FOR  
DRIED GLUCOSE SYRUP

UDC 664.162.79



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INDIAN STANDARDS INSTITUTION  
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Gr 2

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( *Continued from page 1* )

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**AMENDMENT NO. 1 JUNE 2011**  
**TO**  
**IS 8847 : 1978 SPECIFICATION FOR**  
**DRIED GLUCOSE SYRUP**

[Page 5, clause 4.2(e)] — Substitute ‘Net quantity’ for ‘Net mass’.

[Page 5, clause 4.2(e)] — Add the following after Sl No. (e):

- ‘f) Any other requirements as given under the *Standards of Weights and Measures (Packaged Commodities) Rules*, 1977 and the *Prevention of Food Adulteration Act*, 1955 and the Rules framed thereunder.’

(FAD 2)

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Reprography Unit, BIS, New Delhi, India

*Indian Standard*  
**SPECIFICATION FOR**  
**DRIED GLUCOSE SYRUP**

**0. FOREWORD**

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 31 July 1978, after the draft finalized by the Edible Starches and Starch Products Sectional Committee had been approved by the Agricultural and Food Products Division Council.

**0.2** Dried glucose syrup finds use in food applications because of its relatively low moisture content and high glucose solid content. It finds use in milk modifiers for infant feeding formulae, in bakery icings, fillings for cookies, as flavour carriers in dry mixes and other food products. It is also used in canning of frozen fruit. It is used as a sugar supplement in ice cream, water ice, *SHERBET* and frozen deserts.

**0.3** In the preparation of this standard, assistance has been derived from CAC/RS 10-1969 Dried glucose syrup, issued by the Codex Alimentarius Commission ( Joint Committee of FAO and WHO ), Rome.

**0.3.1** Due consideration has been given to the prevention of Food Adulteration Act, 1954 and the Rules framed thereunder. However, this standard is subject to the restrictions imposed under these, wherever applicable.

**0.4** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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**1. SCOPE**

**1.1** This standard prescribes the requirements and the methods of sampling and test for dried glucose syrup.

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\*Rules for rounding off numerical values ( *revised* ).

## 2. TERMINOLOGY

**2.1** For the purpose of this standard, dried glucose syrup shall mean liquid glucose ( *see IS : 873-1974\** ) from which water has been partially removed.

## 3. REQUIREMENTS

**3.1** The material shall be in the form of coarse or fine white to creamish white powder, sweet to taste, bland in flavour and somewhat hygroscopic. It shall be free from fermentation, evidence of mould growth, dirt or other extraneous matter, or added sweetening and flavouring agents.

**3.2** The material shall also comply with the requirements given in Table 1.

**TABLE 1 REQUIREMENTS FOR DRIED GLUCOSE SYRUP**

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST, REF TO
(1)	(2)	(3)	(4)
i)	Total solids content, percent by mass, <i>Min</i>	93.0	Appendix C of IS : 873-1974*
ii)	Reducing sugar content ( dextrose equivalent, DE ) ( on dry basis ), percent by mass, <i>Min</i>	20.0	Appendix B of IS : 873-1974*
iii)	Sulphated ash ( on dry basis ), percent by mass, <i>Max</i>	1.0	Appendix C of IS : 874-1975†
iv)	Sulphur dioxide, mg/kg, <i>Max</i>	40	
v)	Sulphur dioxide, mg/kg, <i>Max</i> ( in those syrups used for manufacture of sugar confections only )	150	Appendix E of IS : 874-1975†
vi)	Arsenic ( As ), mg/kg, <i>Max</i>	1	Appendix D of IS : 873-1974*
vii)	Copper ( Cu ), mg/kg, <i>Max</i>	5	Appendix E of IS : 873-1974*
viii)	Lead ( Pb ), mg/kg, <i>Max</i>	2	Appendix F of IS : 873-1974*

\*Specification for liquid glucose (*first revision*).

†Specification for dextrose monohydrate (*second revision*).

\*Specification for liquid glucose (*first revision*).

#### 4. PACKING AND MARKING

**4.1 Packing** — The material shall be securely packed in clean high density polyethylene ( HDPE ); hessian or other textile bags which may be lined with either paper, polyethylene or cotton; suitable multi-walled paper bags; lined corrugated fibre board containers; solid fibre board containers; or leverlid tin plate containers.

**4.2 Marking** — Each container shall be suitably marked so as to give the following information:

- a) Name of product,
- b) Name and address of the manufacturer,
- c) Batch or code number,
- d) Date of manufacture, and
- e) Net mass of the contents.

**4.2.1** Each container may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution ( Certification Marks ) Act and the Rules and Regulations made thereunder. The ISI mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

#### 5. SAMPLING

**5.1** The method of drawing representative samples of the material and the criteria for conformity shall be as prescribed in Appendix J of IS : 874-1975\*.

#### 6. TESTS

**6.1** Tests shall be carried out as prescribed under **3.1** and col 4 of Table I.

**6.2 Quality of Reagents** — Unless specified otherwise, pure chemicals and distilled water ( *see* IS : 1070-1977† ) shall be employed in tests.

NOTE — ' Pure chemicals ' shall mean chemicals that do not contain impurities which affect the results of analysis.

\*Specification for dextrose monohydrate ( *second revision* ).

†Specification for water for general laboratory use ( *second revision* ).

# INDIAN STANDARDS

## ON

### EDIBLE STARCHES AND STARCH PRODUCTS

IS:

- 873-1974 Liquid glucose (*first revision*)
- 874-1975 Dextrose monohydrate (*second revision*)
- 899-1971 Tapioca sago (*SABOODANA*) (*first revision*)
- 1005-1976 Maize starch (corn flour), edible (*second revision*)
- 1006-1967 Arrowroot starch (*first revision*)
- 1007-1971 Custard powder (*first revision*)
- 1317-1969 Edible tapioca chips (*first revision*)
- 1318-1969 Edible tapioca flour (*first revision*)
- 1319-1969 Edible tapioca starch (*first revision*)
- 3155-1969 *MAKHANNA* products
- 4287-1976 Glossary of terms relating to starch (*first revision*)
- 4662-1977 Methods for sampling of starch (*first revision*)
- 4706 (Part I)-1978 Methods of test for edible starches and starch products: Part I  
Physical methods (*first revision*)
- 4706 (Part II)-1978 Methods of test for edible starches and starch products: Part II  
Chemical methods (*first revision*)